NC/QC/YD/2020-21/P5-C1

Date: 28-09-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.15%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.08 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.64 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-PCC1 Date: 28-09-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.75	0 -20	30- 70
10mm	31.25	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.35	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.05	60-95	75-100	85-100	
01.18	73.55	30-70	55-90	75-100	
600.mic	46.80	15-34	35-59	60-79	
300.mic	23.60	5-20	8-30	12-40	
150.mic	7.25	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-PCC2 Date: 30-09-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.35	0 -20	30- 70
10mm	28.55	0 -5	10- 35
4.75mm	3.90	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	94.75	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.25	60-95	75-100	85-100	
01.18	73.50	30-70	55-90	75-100	
600.mic	42.80	15-34	35-59	60-79	
300.mic	24.10	5-20	8-30	12-40	
150.mic	6.80	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

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ಜ.ಪ.ಬಿ.ಬಿ, ಬೆಂಗಳೂರು-೫೬

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-C3

Date: 03-10-2020

1. TEST REPORT ON CEMENT:

Sub Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref. Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161 min**	Shall not be less than 30 min
2	Final setting time	**285 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.17 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	**28.86 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

Page No. 1/1,

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NC/QC/YD/2020-21/P5-PCC3 Date: 03-10-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	62.45	0 -20	30- 70
10mm	31.75	0 -5	10- 35
4.75mm	4.10	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.15	60-95	75-100	85-100	
01.18	71.80	30-70	55-90	75-100	
600.mic	47.65	15-34	35-59	60-79	
300.mic	24.10	5-20	8-30	12-40	
150.mic	6.80	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-C4

Date: 05-10-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**152 min**	Shall not be less than 30 min
2	Final setting time	**270min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.13 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.07 mm**	Shall not be more than 10 mm
5	Compressive strength d) 3 days (average of three results)	**28.54N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-PCC4

Date: 05-10-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	63.55	0 -20	30- 70
10mm	28.25	0 -5	10- 35
4.75mm	3.75	----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.30	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.55	60-95	75-100	85-100	
01.18	74.65	30-70	55-90	75-100	
600.mic	46.25	15-34	35-59	60-79	
300.mic	23.15	5-20	8-30	12-40	
150.mic	8.45	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-C5

Date: 07-10-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**165 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.18 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.03 mm**	Shall not be more than 10 mm
5	Compressive strength e) 3 days (average of three results)	**28.46 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-PCC5 Date: 07-10-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	66.45	0 -20	30- 70
10mm	32.90	0 -5	10- 35
4.75mm	4.15	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.25	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.65	60-95	75-100	85-100	
01.18	73.55	30-70	55-90	75-100	
600.mic	45.35	15-34	35-59	60-79	
300.mic	26.80	5-20	8-30	12-40	
150.mic	7.05	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/YD/2020-21/P5-CE1 Date: 09-10-2020

I. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04 of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**156 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.89 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.92 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.54 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-FA2 **Date: 09-10-2020**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.15**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.25**	60-95	75-100	85-100	
01.18	**73.05**	30-70	55-90	75-100	
600. mic	**45.80**	15.34	35-59	60-79	
300.mic	**23.50**	5-20	8-30	12-40	
150.mic	**7.35**	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.66%**	-----
2	Silt Content	----	**0.59%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-CA2 **Date: 09-10-2020**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.25	85-100	90 - 100
10 mm	48.10	0 - 20	25 - 55
4.75 mm	3.95	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	26.32 %	Not to exceed 25 %
2.	Crushing value	28.74%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/YD/2020-21/P5-S1

Date: 09-10-2020

I. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10and 12 mm **TMT Steel.**

{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TABLE – 1

SL No	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	12.0 mm
02	Observed Wt/m Length **Kg/m**	**0.623**	0.567	**0.891**	0.834
03	Proof stress/Yield stress, fy , **N/mm^2**	**554.0**	500.0	**550.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.60**	12.00	**21.90**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**643.0**	545.0	**638.0**	545.0

The result of the materials tested meets the standards and hence can be used for the work.

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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Date: 19-10-2020

NC/QC/YD/2020-21/P5-CB1

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04 of Yelahanka New town sub Division(Package -05).}
[2nd B, 3rd B CRPM, culvert]
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-10-20	19-10-20	07	22500	365	16.22	16.30
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	375	16.67	

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-CB2 Date: 21-10-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer, [2nd B, 3rd B cross, culvert]
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-10-20	21-10-20	07	22500	365	16.22	16.15
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	355	15.78	

The result of the materials tested meets the standards and hence can be used for the work.

Page No. 1/1,

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NC/QC/YD/2020-21/P5-CB3

Date: 23-10-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
[1st cross]
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-10-20	23-10-20	07	22500	375	16.67	16.74
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	370	16.44	

The result of the materials tested meets the standards and hence can be used for the work.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಲಾ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

NEWZEN CONSULTANT Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-CB5 Date: 26-10-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04 of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer, [Culvert]
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-10-20	26-10-20	07	22500	380	16.89	16.81
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	385	17.11	

The result of the materials tested meets the standards and hence can be used for the work.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

NEWZEN CONSULTANT * Bangalore *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-CB6 Date: 27-10-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04 of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer, [8th main]
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-10-20	27-10-20	07	22500	360	16.00	16.07
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	370	16.44	

The result of the materials tested meets the standards and hence can be used for the work.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೫೬

NEWZEN CONSULTANT Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-CB7 **Date: 27-10-2020**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer, [18th main]
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-10-20	27-10-20	07	22500	370	16.44	16.22
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	360	16.00	

The result of the materials tested meets the standards and hence can be used for the work.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬೆ.ಮ.ನ.ಪ, ಬೆಂಗಳೂರು-10

NEWZEN CONSULTANT * Bangalore *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-CB8 Date: 29-10-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer, [18th main]
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-10-20	29-10-20	07	22500	365	16.22	**16.15**
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	355	15.78	

The result of the materials tested meets the standards and hence can be used for the work.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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Page No. 1/1,

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NC/QC/YD/2020-21/P5-CB1A

Date: 09-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
[2nd B, 3rd B cross]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	12-10-20	09-11-20	28	22500	500	22.22	22.44
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-CB2A

Date: 11-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
[2nd B, 3rd B Cross]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	14-10-20	11-11-20	28	22500	510	22.67	23.04
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	520	23.11	

The result of the materials tested meets the standards and hence can be used for the work.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪವಿಭಾಗ ಉಪಗ್ರಹ ಪಟ್ಟಣ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೫೬೦ ೦೬೪

NEWZEN CONSULTANT * Bangalore *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-CB3A

Date: 13-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [1st cross]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-10-20	13-11-20	28	22500	495	22.00	**22.22**
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.

NEWZEN CONSULTANT BANGALORE

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-CB4A

Date: 14-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04 of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
[culvert]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE I.I:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	17-10-20	14-11-20	28	22500	505	22.44	22.59
	002	"	"	"	"	520	23.11	
	003	"	"	"	"	500	22.22	

The result of the materials tested meets the standards and hence can be used for the work.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರ ಕಾರ್ಯಾಲಯ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಜಿ.ಬಿ.ಬಿ.ಎಂ, ಬೆಂಗಳೂರು-106

NEWZEN CONSULTANT * Bangalore *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-CB5A

Date: 17-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04 of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
[18th main]
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-10-20	17-11-20	29	22500	515	22.89	22.81
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	525	23.33	

The result of the materials tested meets the standards and hence can be used for the work.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬ.ಜ.ನ.ಪ. ಬೆಂಗಳೂರು-106

NEWZEN CONSULTANT * Bangalore *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-CB6A

Date: 17-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}

Ref.: Material testing/PMC/20-21,

[18th main]

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-10-20	17-11-20	28	22500	525	23.33	22.96
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.

Page No. 1/1,

NEWZEN CONSULTANT * Bangalore *

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NC/QC/YD/2020-21/P5-CB7A

Date: 17-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

(18th main)

Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-10-20	17-11-20	28	22500	515	22.89	22.52
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	510	22.67	

The result of the materials tested meets the standards and hence can be used for the work.

NEWZEN CONSULTANT * Bangalore *

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/YD/2020-21/P5-CB8A **Date: 19-11-2020**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}

Ref.: Material testing/PMC/20-21,

[18th main]

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-10-20	19-11-20	28	22500	510	22.67	**22.37**
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.

NEWZEN CONSULTANT Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-D1 Date: 15-10-2020

TEST REPORT ON DRY LEAN CONCRETE

(GRADATION TEST)

Sub: To conduct Gradation test on Dry Lean Concrete (DLC) Mix.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
26.50	**100**	100
19.00	**96.25**	75-95
9.50	**64.10**	50-70
4.75	**51.55**	30-55
2.36	**36.90**	17-42
0.600	**17.55**	8-22
0.300	**15.35**	7-17
0.150	**9.75**	2-12
0.075	**8.40**	0-10

The result of the materials tested meets the standards and hence can be used for the work.

Page No. 1/1,

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NC/QC/YD/2020-21/P5-CR1

Date: 28-10-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer, [Cross Road]
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-10-20	28-10-20	07	22500	515	22.89	23.41
	002	"	"	"	"	540	24.00	
	003	"	"	"	"	525	23.33	

The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT * Bangalore

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-CR2

Date: 28-10-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
[Cross Road]
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-10-20	28-10-20	07	22500	530	23.56	23.70
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	545	24.22	

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-CR1A

Date: 18-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
[cross Road]
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-10-20	18-11-20	28	22500	730	32.44	32.59
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	725	32.22	

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-CR2A

Date: 18-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer, [cross Road]
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-10-20	18-11-20	28	22500	730	32.44	32.81
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	740	32.89	

The result of the materials tested meets the standards and hence can be used for the work.

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/YD/2020-21/P5-CR2A

Date: 18-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer, [cross Road]
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-10-20	18-11-20	28	22500	730	32.44	32.81
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	740	32.89	

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-CR2A

Date: 18-11-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).

{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}

Ref.: Material testing/PMC/20-21,

[cross Road]

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-10-20	18-11-20	28	22500	730	32.44	32.81
	002	"	"	"	"	745	33.11	
	003	"	"	"	"	740	32.89	

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-GSB1 Date: 03-11-2020

TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

Sub: To conduct tests on GSB (Grade-V) mix.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
[Chikkabomma Sandra, main, LJ Iyengar Bakery, 3rd B, 2nd B cross]
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

1. **Gradation Test:**
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
75.00	**100.00**	100
53.00	**95.45**	80-100
26.50	**81.60**	55-90
9.50	**56.15**	35-65
4.75	**43.05**	25-50
2.36	**18.25**	10-20
0.85	**7.50**	2-10
0.425	**3.65**	0-5

The result of the materials tested meets the standards and hence can be used for the work.

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Date: 03-11-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)- 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	0.42 %	Not more than 2.0 %
2.	Liquid Limit, %	18.36%	Not more than 25.0 %
3.	Plasticity Index, %	NP	Not more than 6.0 %
4.	Moisture Content, %	6.48%	----------
5.	Aggregate Impact Value, %	28.73%	Not more than 40.00 %

The result of the materials tested meets the standards and hence can be used for the work.

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Date: 05-11-2020

NC/QC/YD/2020-21/P5-W1

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04 of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
[Chikkabommasandra, main, 2nd B, 3rd B Cross, LJ Iyengar bakery, J
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	97.35	95-100
26.50	---	-
22.40	74.25	60-80
11.20	52.45	40-60
4.75	34.90	25-40
2.36	22.50	15-30
0.600	18.05	8-22
0.075	3.90	0-5

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-W2 Date: 07-11-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [Chikkabommasandra, main, 2nd B, 3rd B cross, L.J Iyengar Block]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	96.35	95-100
26.50	—	-
22.40	74.60	60-80
11.20	52.45	40-60
4.75	36.90	25-40
2.36	24.50	15-30
0.600	19.35	8-22
0.075	4.05	0-5

The result of the materials tested meets the standards and hence can be used for the work.

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/YD/2020-21/P5-W3 Date: 09-11-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [Raiway Parallel Road]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	98.45	95-100
26.50	---	-
22.40	71.30	60-80
11.20	56.80	40-60
4.75	34.65	25-40
2.36	22.50	15-30
0.600	19.25	8-22
0.075	3.75	0-5

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-W4 Date: 12-11-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [Railway Parallal Road]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

1. Gradation Test:
TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**96.55**	95-100
26.50	---	-
22.40	**74.80**	60-80
11.20	**52.45**	40-60
4.75	**34.90**	25-40
2.36	**26.80**	15-30
0.600	**17.15**	8-22
0.075	**3.65**	0-5

The result of the materials tested meets the standards and hence can be used for the work.

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/YD/2020-21/P5-BD1 Date: 26-11-2020

1. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

SL No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
1.	Penetration at 25^0 C	**52.30° C**	Min. 45
2.	Ductility Value at 25^0 C	**108.90 cm**	40
3.	Flash point	**245° C**	Minimum 220^0 C
4.	Softening point	**51.20° C**	Min. 47

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-DBM1

Date: 04-12-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [Chikkabommasandra, main, 2nd & 3rd cross, L J Iyengars bakery]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test – **4.52 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	**100**	100
26.5	**97.25**	90-100
19.0	**83.60**	71-95
13.20	**71.35**	56-80
4.75	**48.70**	38-54
2.36	**36.05**	28-42
0.300	**18.90**	7-21
0.075	**7.40**	2-8

. The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-DS1 Date: 04-12-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1238**	900
2	Marshall Flow at 60°C, mm.	**3.26**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-DBM3

Date: 05-12-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for DBM mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [Railway Parallel Road]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

A. Type of Construction : **Dense Graded Bituminous Macadam.**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **4.54 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-10 of MORTH Specfications-2013 DBM (Grading - 2)
37.5	100	100
26.5	97.15	90-100
19.0	83.05	71-95
13.20	71.45	56-80
4.75	49.65	38-54
2.36	34.05	28-42
0.300	17.35	7-21
0.075	6.15	2-8

. The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-DS3 Date: 05-12-2020

LTEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for DBM mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref. Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

Table 1: Properties of DBM (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Dense Bituminous Macadam, Grade-2 as per M.o.R.T&H (IV Revision)-2001 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1258**	900
2	Marshall Flow at 60°C, mm.	**3.46**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-CB1 **Date: 03-12-2020**

1. TEST REPORT ON COARSE AGGREGATE:

Sub: Testing of Coarse Aggregate used in Bituminous Concrete.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TABLE 1.1 ;

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**22.86%**	Not more than 24.00 %
2.	Combined Flakiness and Elongation index, %	**27.56%**	Not more than 35.0 %
3.	Water absorption, %	**0.42%**	Not more than 2.0 %
4.	Specific gravity	**2.62**	-------
5.	Soundness	**5.74%**	Max. 12 % in Sodium Sulphate

. The result of the materials tested meets the standards and hence can be used for the work.

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-BC1 Date: 08-12-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04 of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [Chikkabommasandra, main, 2nd B, 3rd B Cross, LJ Iyengars, Baker]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42 %**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**96.45**	90-100
9.5	**82.90**	70-88
4.75	**67.45**	53-71
2.36	**53.75**	42-58
1.18	**41.30**	34-48
0.600	**34.85**	26-38
0.300	**22.10**	18-28
0.150	**17.60**	12-20
0.075	**8.90**	4-10

. The result of the materials tested meets the standards and hence can be used for the work.

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-BC2 Date: 08-12-2020

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}

Ref.: Material testing/PMC/20-21, [Chikkabommasandra, main, 2nd B, 3rd B Cross

Report Required for: Assistant Executive Engineer, JJ Iyengars Bakery]
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.44%**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**94.25**	90-100
9.5	**83.10**	70-88
4.75	**62.35**	53-71
2.36	**54.80**	42-58
1.18	**44.35**	34-48
0.600	**31.75**	26-38
0.300	**26.55**	18-28
0.150	**18.10**	12-20
0.075	**7.35**	4-10

. The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-BC3 Date: 09-12-2020

LTEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [Chikkabommasandra, main, 2nd & 3rd Cross LJ Iyengar Baker]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.41%**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.25**	90-100
9.5	**83.10**	70-88
4.75	**66.35**	53-71
2.36	**51.80**	42-58
1.18	**44.35**	34-48
0.600	**32.75**	26-38
0.300	**24.90**	18-28
0.150	**16.10**	12-20
0.075	**8.35**	4-10

The result of the materials tested meets the standards and hence can be used for the work.

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/YD/2020-21/P5-BC4 Date: 09-12-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [Chikkabommasandra, main, 2nd B, 3rd B cross L-J Nyengar bagery]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.44%**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**96.45**	90-100
9.5	**82.90**	70-88
4.75	**67.45**	53-71
2.36	**54.75**	42-58
1.18	**46.30**	34-48
0.600	**31.85**	26-38
0.300	**24.10**	18-28
0.150	**17.45**	12-20
0.075	**6.90**	4-10

The result of the materials tested meets the standards and hence can be used for the work.

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/YD/2020-21/P5-BC5 Date: 11-12-2020

LTEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.. Material testing/PMC/20-21, [Chikkabommasandra, main, 2nd a, 3rd a cross
Report Required for: Assistant Executive Engineer, LJ Iyengar Bakery]
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42%**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**95.25**	90-100
9.5	**82.15**	70-88
4.75	**65.35**	53-71
2.36	**52.80**	42-58
1.18	**45.35**	34-48
0.600	**31.75**	26-38
0.300	**23.65**	18-28
0.150	**18.25**	12-20
0.075	**7.35**	4-10

. The result of the materials tested meets the standards and hence can be used for the work.

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EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-BC6 Date: 14-12-2020

I.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [3rd A cross, 4th main, 2nd main]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43%**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**93.25**	90-100
9.5	**80.15**	70-88
4.75	**67.35**	53-71
2.36	**53.80**	42-58
1.18	**41.35**	34-48
0.600	**32.75**	26-38
0.300	**23.65**	18-28
0.150	**17.40**	12-20
0.075	**8.15**	4-10

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-BC7 **Date: 14-12-2020**

LTEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [3rd A cross, 4th, and B main]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43%**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**96.25**	90-100
9.5	**81.15**	70-88
4.75	**65.35**	53-71
2.36	**52.80**	42-58
1.18	**41.35**	34-48
0.600	**34.75**	26-38
0.300	**21.65**	18-28
0.150	**18.40**	12-20
0.075	**7.30**	4-10

. The result of the materials tested meets the standards and hence can be used for the work.

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EMAIL:newzen576@gmail.com

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NC/QC/YD/2020-21/P5-BC8

Date: 16-12-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [3rd A cross & 4th, 2nd B main]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42%**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	100	100
13.2	94.25	90-100
9.5	81.90	70-88
4.75	63.45	53-71
2.36	52.75	42-58
1.18	46.30	34-48
0.600	33.85	26-38
0.300	25.10	18-28
0.150	16.90	12-20
0.075	7.25	4-10

. The result of the materials tested meets the standards and hence can be used for the work.

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
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NC/QC/YD/2020-21/P5-BC9 Date: 17-12-2020

LTEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04 of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21, [Railway Parallel Road]
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**
1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.43%**

2. **Gradation Test**
TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**97.25**	90-100
9.5	**82.15**	70-88
4.75	**65.35**	53-71
2.36	**51.80**	42-58
1.18	**43.35**	34-48
0.600	**31.75**	26-38
0.300	**24.65**	18-28
0.150	**18.25**	12-20
0.075	**7.35**	4-10

. The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-BC10 Date: 17-12-2020

1.TEST REPORT ON BITUMINOUS MIXES :

(BITUMEN EXTRACTION TEST & GRADATION TEST)

Sub: To determine the percentage of bitumen and gradation for BC mix sample.

{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}

Ref.: Material testing/PMC/20-21, [Railway Parallel Road]

Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

A. Type of Construction : **Bituminous Concrete**

1. The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.42%**

2. **Gradation Test**

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-17 of MORTH Specfications-2013 BC (Grading - 2)
19.0	**100**	100
13.2	**96.25**	90-100
9.5	**83.15**	70-88
4.75	**67.35**	53-71
2.36	**51.80**	42-58
1.18	**42.35**	34-48
0.600	**34.75**	26-38
0.300	**22.65**	18-28
0.150	**18.10**	12-20
0.075	**6.90**	4-10

The result of the materials tested meets the standards and hence can be used for the work.

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NC/QC/YD/2020-21/P5-BS10 Date: 17-12-2020

1.TEST REPORT ON BITUMINOUS MIXES :
(STABILITY OF BITUMINOUS MIX)

Sub: To determine the stability of bituminous mix for BC mix sample.
{Project*: Improvements to roads & drains at Judicial Layout, Someshwaranagara, Chikkabommasandra and Allalasandra and surrounding areas in ward no.04.of Yelahanka New town sub Division(Package -05).}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M.S. Venkatesh (MSV Constrution Company).

TEST RESULTS

Table 1: Properties of BC (Gr-2) Mix

Sl. No.	Test Property	*Test results obtained by Marshall method	Requirements of Bituminous Concrete, Grade-2 as per M.o.R.T&H (V Revision)-2013 Specifications
1	Marshall Stability (75 blows) (At 60°C), kgs.	**1356**	900
2	Marshall Flow at 60°C, mm.	**3.44**	2.0 - 4.0

The result of the materials tested meets the standards and hence can be used for the work.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬ.ಬ.ಮ.ಪ. ಬೆಂಗಳೂರು-106

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

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